Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-05-21-06** **Date: 24-05-18**
Customer	:	Assistant Executive Engineer, Byatarayanapur Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapur Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Surrounding areas of Sampigehalli in ward No.05, Byatarayanapura Sub Division.
Agency	:	S.K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-64.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/211/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-05-18
Sample ID No	:	2018-05-21-06 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	21-05-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	83	83	8.3	91.7	90-100	90-100	90-100	95-100
3	2.36 mm	134	217	21.7	78.3	60-95	75-100	85-100	95-100
4	1.18 mm	166	383	38.3	61.7	30-70	55-90	75-100	90-100
5	600 micron	179	562	56.2	43.8	15-34	35-59	60-79	80-100
6	300 micron	187	749	74.9	25.1	5-20	8-30	12-40	15-50
7	150 micron	154	903	90.3	9.7	0-10	0-10	0-10	0-15
8	Pan	97	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

AE ward No 5

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-05-21-06** **Date: 24-05-18**

Sample ID No : 2018-05-21-06 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.99	–
2	Specific Gravity	2.55	–
3	Material finer than 75 micron(%)	5.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-05-28-03** **Date: 02/06/2018**

Customer : Assistant Executive Engineer, Byatarayanapur Sub Division, BBMP, Bangalore.

Address : Byatarayanapur Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Surrounding areas of Sampigehalli in ward No.05, Byatarayanapura Sub Division.

Agency : S.K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-64.

Customer's Reference : EE/BTP/BBMP/E-PMT/211/2015-16

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-05-18

Sample ID No : 2018-05-28-03 /01

Customer ID : M20 Concrete(RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/06/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete(RMC)	M20	26/05/2018	02/06/2018	150.22 X 150.24 X 150.27	22569	8.345	410.8	18.2	18.1
2	M20 Concrete(RMC)	M20	26/05/2018	02/06/2018	150.28 X 150.29 X 150.30	22586	8.367	404.3	17.9	
3	M20 Concrete(RMC)	M20	26/05/2018	02/06/2018	150.31 X 150.20 X 150.25	22577	8.323	413.2	18.3	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-05-28-03** **Date: 23/06/2018**

Customer : Assistant Executive Engineer, Byatarayanapur Sub Division, BBMP, Bangalore.

Address : Byatarayanapur Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Surrounding areas of Sampigehalli in ward No.05, Byatarayanapura Sub Division.

Agency : S.K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-64.

Customer's Reference : EE/BTP/BBMP/E-PMT/211/2015-16

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-05-18

Sample ID No : 2018-05-28-03 /02

Customer ID : M20 Concrete(RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/06/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete(RMC)	M20	26/05/2018	23/06/2018	150.21 X 150.24 X 150.27	22568	8.324	534.9	23.7	23.4
2	M20 Concrete(RMC)	M20	26/05/2018	23/06/2018	150.26 X 150.29 X 150.24	22583	8.354	517.1	22.9	
3	M20 Concrete(RMC)	M20	26/05/2018	23/06/2018	150.28 X 150.20 X 150.25	22572	8.378	530.4	23.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-05-28-03** **Date: 02/06/2018**

Customer : Assistant Executive Engineer, Byatarayanapur Sub Division, BBMP, Bangalore.

Address : Byatarayanapur Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Surrounding areas of Sampigehalli in ward No.05, Byatarayanapura Sub Division.

Agency : S.K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-64.

Customer's Reference : EE/BTP/BBMP/E-PMT/211/2015-16

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-05-18

Sample ID No : 2018-05-28-03 /03

Customer ID : M20 Concrete(RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/06/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete(RMC)	M20	26/05/2018	02/06/2018	150.21 X 150.24 X 150.27	22568	8.332	404.0	17.9	17.9
2	M20 Concrete(RMC)	M20	26/05/2018	02/06/2018	150.28 X 150.29 X 150.22	22586	8.355	408.8	18.1	
3	M20 Concrete(RMC)	M20	26/05/2018	02/06/2018	150.28 X 150.20 X 150.25	22572	8.343	397.3	17.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-05-28-03** **Date: 23/06/2018**

Customer : Assistant Executive Engineer, Byatarayanapur Sub Division, BBMP, Bangalore.

Address : Byatarayanapur Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Surrounding areas of Sampigehalli in ward No.05, Byatarayanapura Sub Division.

Agency : S.K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-64.

Customer's Reference : EE/BTP/BBMP/E-PMT/211/2015-16

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-05-18

Sample ID No : 2018-05-28-03 /04

Customer ID : M20 Concrete(RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/06/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete(RMC)	M20	26/05/2018	23/06/2018	150.24 X 150.27 X 150.29	22577	8.333	537.3	23.8	23.3
2	M20 Concrete(RMC)	M20	26/05/2018	23/06/2018	150.28 X 150.22 X 150.24	22575	8.376	526.0	23.3	
3	M20 Concrete(RMC)	M20	26/05/2018	23/06/2018	150.32 X 150.25 X 150.31	22586	8.382	515.0	22.8	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-05-28-03** **Date: 02/06/2018**

Customer : Assistant Executive Engineer, Byatarayanapur Sub Division, BBMP, Bangalore.

Address : Byatarayanapur Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Surrounding areas of Sampigehalli in ward No.05, Byatarayanapura Sub Division.

Agency : S.K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-64.

Customer's Reference : EE/BTP/BBMP/E-PMT/211/2015-16

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-05-18

Sample ID No : 2018-05-28-03 /05

Customer ID : M20 Concrete(RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/06/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete(RMC)	M20	26/05/2018	02/06/2018	151.23 X 150.47 X 150.98	22756	8.245	405.0	17.8	17.6
2	M20 Concrete(RMC)	M20	26/05/2018	02/06/2018	150.45 X 150.63 X 150.77	22662	8.198	398.9	17.6	
3	M20 Concrete(RMC)	M20	26/05/2018	02/06/2018	149.63 X 150.47 X 150.63	22515	8.204	391.8	17.4	

Note:

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-05-28-03** **Date: 23/06/2018**

Customer : Assistant Executive Engineer, Byatarayanapur Sub Division, BBMP, Bangalore.

Address : Byatarayanapur Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Surrounding areas of Sampigehalli in ward No.05, Byatarayanapura Sub Division.

Agency : S.K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-64.

Customer's Reference : EE/BTP/BBMP/E-PMT/211/2015-16

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-05-18

Sample ID No : 2018-05-28-03 /06

Customer ID : M20 Concrete(RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/06/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete(RMC)	M20	26/05/2018	23/06/2018	149.63 X 151.22 X 151.74	22627	8.245	536.3	23.7	23.7
2	M20 Concrete(RMC)	M20	26/05/2018	23/06/2018	151.69 X 150.44 X 150.63	22820	8.198	534.0	23.4	
3	M20 Concrete(RMC)	M20	26/05/2018	23/06/2018	149.63 X 151.42 X 150.28	22657	8.247	541.5	23.9	

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-05-21-06** **Date: 24-05-18**
Customer	:	Assistant Executive Engineer, Byatarayanapur Sub Division, BBMP,
Address	:	Byatarayanapur Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Surrounding areas of Sampigehalli in ward No.05, Byatarayanapura Sub Division.
Agency	:	S.K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-64.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/211/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-05-18
Sample ID No	:	2018-05-21-06 /01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	22-05-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.65	_
2	Finess by Air permeablity method (m^2/kg,Min)	289.5	225m^2/kg, Min
3	Density (gm/cc)	3.11	_
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

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All information furnished by Customer/Representative

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-05-21-06 **Date: 19-06-18**
Customer	:	Assistant Executive Engineer, Byatarayanapur Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapur Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Surrounding areas of Sampigehalli in ward No.05, Byatarayanapura Sub Division.
Agency	:	S.K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-64.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/211/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-05-18
Sample ID No	:	2018-05-21-06 /01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	22-05-18
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	27.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-05-21-06** **Date: 24-05-18**
Customer	:	Assistant Executive Engineer, Byatarayanapur Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapur Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Surrounding areas of Sampigehalli in ward No.05, Byatarayanapura Sub Division.
Agency	:	S.K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-64.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/211/2015-16
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	21-05-18
Sample ID No	:	2018-05-21-06 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-05-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	321	321	2.1	97.9	90-100
3	20 mm	5663	5984	39.9	60.1	30-70
4	10 mm	4536	10520	70.1	29.9	10-35
5	4.75 mm	4153	14673	97.8	2.2	0-5
6	Pan	327	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-05-21-06** **Date: 24-05-18**

Sample ID No : 2018-05-21-06 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.67	_
4	Bulk Density(Loose) (Kg/l)	1.51	_
5	Bulk Density(Compacted) (Kg/l)	1.53	_
6	Water Absorption(%)	0.24	_

Note:

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